

States of Matter

Lesson 1 Solids, Liquids, and Gases



Grade 8 Science Content Standards—3.e: Students know that in solids the atoms are closely locked in position and can only vibrate; in liquids the atoms and molecules are more loosely connected and can collide with and move past one another; and in gases the atoms and molecules are free to move independently, colliding frequently. Also covers: 3.d

Scan Lesson 1 of your book. Use the checklist below.

- Read all the headings.
- Read all the bold words.
- Look at the charts and pictures.
- Think about what you already know about states of matter.

Write three things that you learn about states of matter.

1. _____
2. _____
3. _____

Review Vocabulary

matter

Define matter using your book or a dictionary.

New Vocabulary

solid
gas
random motion
liquid

Write a paragraph that uses all the vocabulary terms in a way that shows their meanings.

Academic Vocabulary

distribute

Use a dictionary to define distribute.

Lesson 1 Solids, Liquids, and Gases (continued)

Main Idea

What are states of matter?

I found this information on page _____.

I found this information on page _____.

Details

Identify the 4 states of matter, and give an example of each.

Four States of Matter	
State	Example
1.	
2.	
3.	
4.	

Model the movement of particles in matter by random motion. Show particles as dots, and use arrows to show the direction of movement. Write a caption to explain your model.

Caption: _____

SUMMARIZE IT

Summarize the main ideas of the above sections.

Lesson 1 Solids, Liquids, and Gases (continued)

Main Idea

Details

Solids

I found this information on page _____.

Identify the main characteristics of solids.

Liquids

I found this information on page _____.

Compare characteristics of solids and liquids.

	Solids	Liquids
Shape	fixed	
Volume		fixed
Motion of particles		

Gases

I found this information on page _____.

Organize information about gases in the outline.

Characteristics of gases

- 1. Gas particles
 - a. _____
 - b. _____
- 2. Shape and volume of gases
 - a. _____
 - b. _____

SUMMARIZE IT

Summarize three main ideas from the above sections.

